

Weekly Report

12/28/2015 - 01/03/2016

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1 Summary

This week I mainly focus on the GeoScanner implementation.

2 Projects

2.1 The GeoScanner Project

This week I focused on the target selection function. The procedure is as follows:

1. pick target from candidate dataset.
2. select time period (start time and end time).
3. mark spatial temporal constraints from map (see figure below). Users are able to put markers on the map as a spatial-temporal constraints, set the time constraints. The markers will be listed on the left, where users can examine or delete the corresponding markers on the map.
4. query candidate target.
5. select one target from the candidate. Users are able to examine trajectory of the candidates one by one and select one to be the final target.

To fulfill the function, the server end should first get candidate IDs that match the spatial-temporal constraints, and then get their trajectories. And to get candidate IDs, a matching function is needed.

We also recently realize some mistakes in the dataset. Some trajectories exceed the boundary of Wenzhou. To clean those data and also to reduce the data size, we narrow down the region to downtown Wenzhou instead of the whole Wenzhou district. After this modification, we have to run the data construction process again.

The good news is Zhengyang Shi and Hui Ying have completed their exams and participated in the project too. I'm still not sure how much they can do...

Target Subject

Select

1. Pick target from

Taxi Dataset ▾

Q

Taxi ...

2. Select time period (optional)

Start Time:

01/14/2014 12:00 AM

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End Time:

02/28/2014 11:59 PM

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3. Mark spatial temporal constraints from map (optional)

☑

marker 534:20140114 00:00 ✕

marker 908:20140114 00:00 ✕

Get target subjects

